RESEARCH DEPARTMENT

KILKEEL V.H.F. RELAY STATION: SUMMARY OF INSTALLATION

Technological Report No. RA-2/6 UDC 621.396.712 1967/44

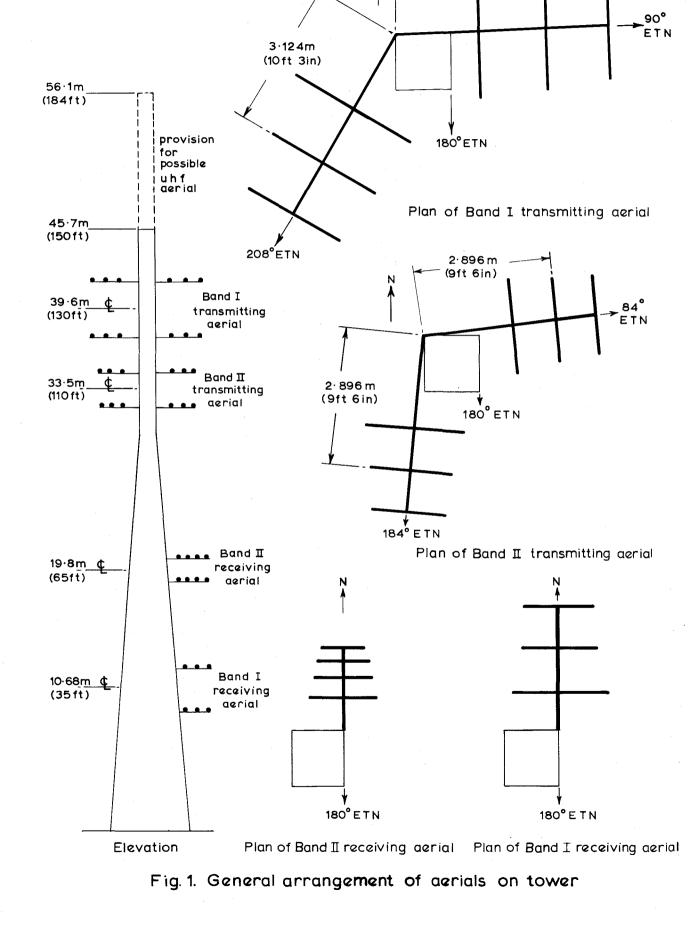
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R.D.C. Thoday, A.M.I.E.R.E.

for Head of Research Department



3·124m (10ft 3in)

V.H.F. RELAY STATIONS: SUMMARY OF INSTALLATION **TELEVISION**

NAME: KILKEEL

SERVICE TRANSMISSIONS COMMENCED: 20th March 1967

SITE DATA

LOCATION: Approximately 4km (2.5 miles)

north-west of Kilkeel

GRID REFERENCE: J281180

HEIGHT, A.O.D.: 253.6m (832 ft)

SUPPORT STRUCTURE

TYPE: Self-supporting tower

OVERALL HEIGHT: 45.7m (150 ft)

GENERAL ARRANGEMENT

FIGURE: 1

FREQUENCIES

BAND: T

CHANNEL: 3

VISION CARRIER OFFSET: +37.125 kHz

SOUND CARRIER OFFSET: +37.125 kHz

TRANSMITTER

POWER: 10 W (Translator)

NOTES:

TRANSMITTING AERIAL

DESCRIPTION:

Two horizontal three-

element Yagis per tier

NUMBER OF TIERS: 2

MEAN HEIGHT: 39.6m (130 ft)

FEEDERS

TRANSMITTING: T 3320

RADIATION CHARACTERISTICS

POLARIZATION: Horizontal

MEAN E.R.P.: 8.9 W

MAXIMUM E.R.P.: 24.7 ₩

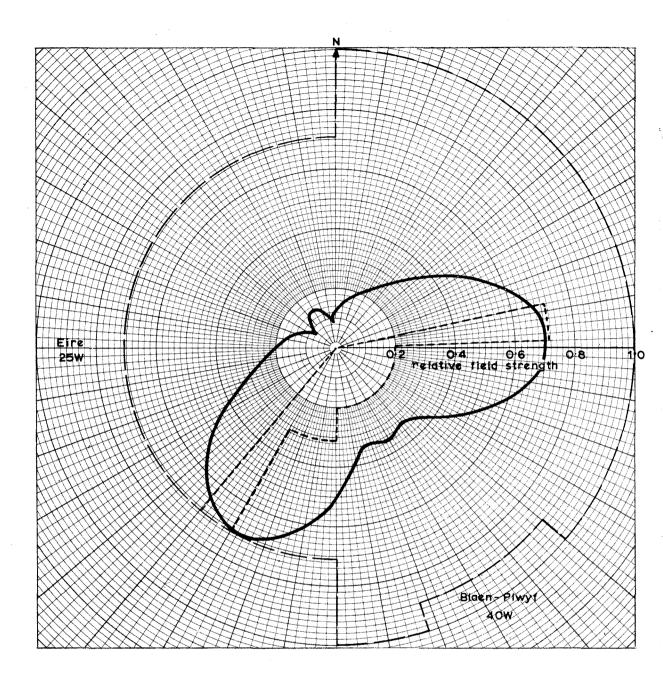
H.R.P.: Fig. 2

PROGRAMME SOURCE

PARENT: Divis

Obtained by direct reception

Blank Drg. No. R. 18612. A4



KILKEEL

Fig. 2. Band I templet and horizontal radiation pattern

————— Maximum permissible E.R.P.
—————— Minimum desirable E.R.P.
Unit field corresponds to an E.R.P. of 50W

V.H.F. RELAY STATIONS: SUMMARY OF INSTALLATION SOUND

NAME: Kilkeel

SERVICE TRANSMISSIONS COMMENCED: 20th March 1967

BAND II FREQUENCIES

LIGHT: 88.8 MHz

THIRD: 91.0 MHz

HOME: 93.2 MHz

TRANSMITTER

POWER: 10 W (Translator)

TRANSMITTING AERIAL

DESCRIPTION: Two horizontal three-element

Yagis per tier

NUMBER OF TIERS:

MEAN HEIGHT: 33.5 m (110 ft)

FEEDERS

TRANSMITTING: T 3320

NOTES:

1. Detailed information is given on the following drawings held by BBC Transmitter Planning and Installation Department:

P.I.D. 6047.2.160A4 Masts General: Kilkeel-Tower and Aerials - Outlines and orientations

P.I.D. 8732.2.4A2 Band I Yagi, Type 353P Band II Yagi, Type 353P P.I.D. 8732.2.7A2

P.I.D. 8732.2.5A2

Band II Yagi, Type 453P

RADIATION CHARACTERISTICS

POLARIZATION: Horizontal

MEAN E.R.P.:

7.8 W

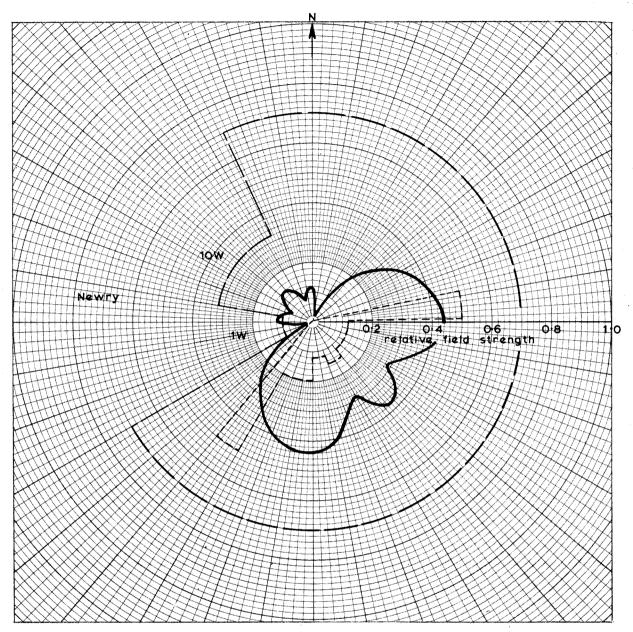
MAXIMUM E.R.P.: 19.4 ₩

H.R.P.: Fig. 3

PROGRAMME SOURCE

PARENT: Divis

Obtained by direct reception



KILKEEL

Fig 3. Band II templet and horizontal radiation pattern

———— Maximum permissible E.R.P.

----- Minimum desirable E.R.P.

Unit field corresponds to an E.R.P. of 100W